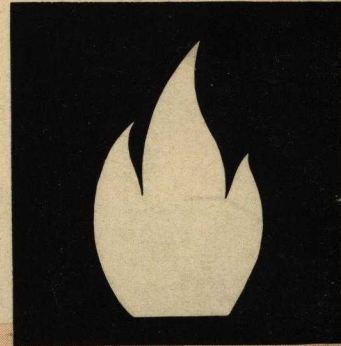


Recd 4/53

Why you should sell BENNETT



Go
Wo
1-4065
2-4917

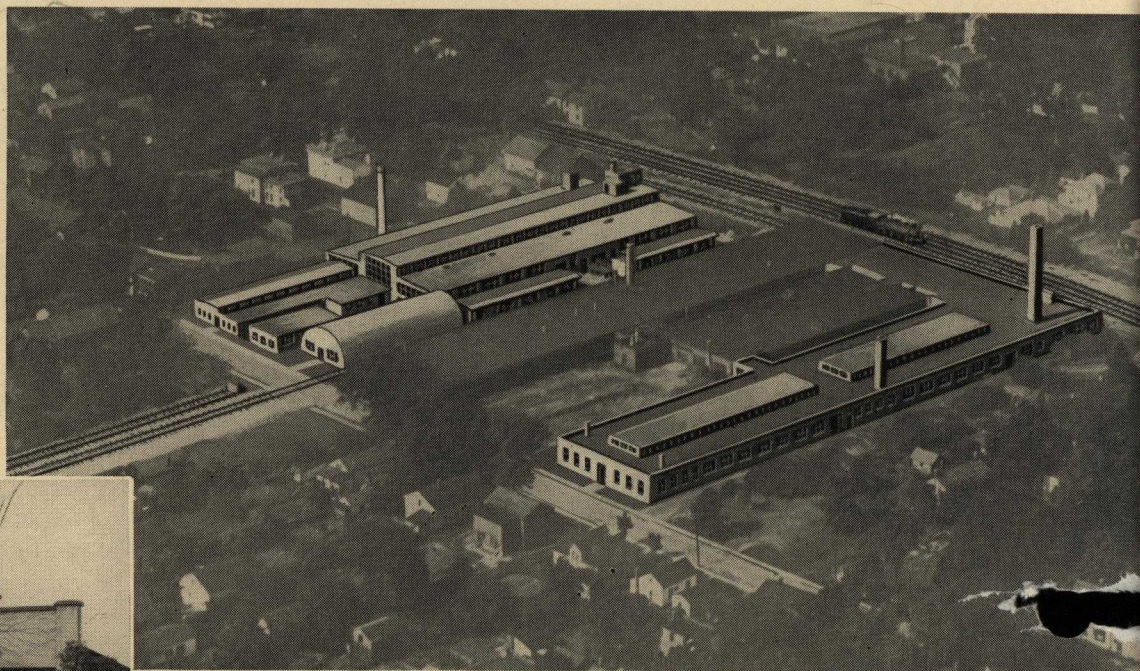
Profit proven fireplace supplies

ADDRESS J. W. L. TODD
FACTORY REPRESENTATIVE
DICKSON & NORTH BROADWAY
ST. LOUIS 6, MISSOURI



WHO IS BENNETT

**Modern
Manufacturing
Facilities**



Bennett and Ireland Plants and
Home Offices at Norwich, New York



Sherburne, New York plant

Home plants of BENNETT-IRELAND, INC.

Modern manufacturing facilities . . . years of design and engineering "know-how" . . . substantial, steady growth . . . a progressive, authoritative knowledge of the field — of the market and its needs — are behind the complete Bennett Line.

BENNETT
one great
profit source
for all your
fireplace supplies

WHY MORE PROFITS WITH BENNETT

GAIN 5 WAYS

Buy all of your fireplace supplies from one good source

1. YOU GAIN BIGGER DISCOUNTS

Bennett's discounts increase **substantially** with larger orders and greater annual volume.

2. YOU SAVE ON TRANSPORTATION

Money-in-your-pocket savings result from heavier shipments, especially today.

3. YOU SPEED UP TURNOVER

With the entire line you can order frequently . . . speed turn-over . . . save short-rate discounts on short-line fill-in orders.

4. WE GIVE FULL SALES SUPPORT

Obviously our home or branch offices and field sales force can afford to give more merchandising help if you carry our full line.

5. YOU MAKE BIGGER SALES

Don't sell a fireplace customer just a damper or a form. Carry Bennett's complete line and really **outfit** him!

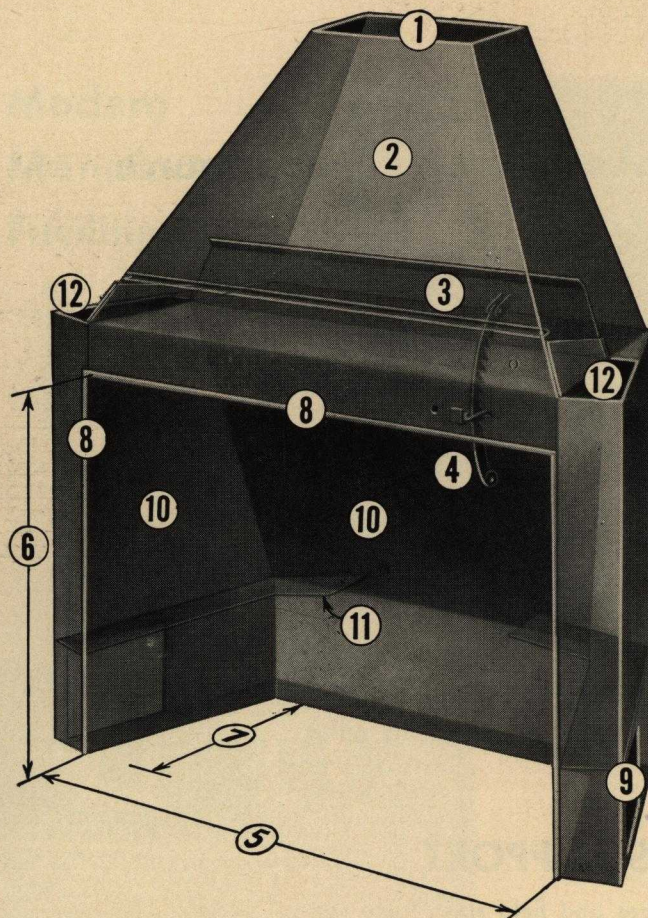
Bennett Construction Supplies

"Warm-Aire" Fireplace Forms
With Ratchet or Exclusive Rotary Controls
Grilles—4 Designs, Cast or Stamped
Electric Blower Fans
Throat Dampers (Sizes 24 to 72)
"Expanslip"—Steel Plate
"Steep-Slope"—Cast with Steel Valve
"Steep-Slope"—Cast with Cast Valve
Clean-Out Doors
Ash Dumps
Lintel Bars

Bennett Fireplace Furnishings

Flexscreen Safety Fireplace Curtains
Andirons
Firesets
Hearth Brushes
Fire-Lighters
Wood Baskets
Fenders
Coal Grates
Wood Grates
Log Dogs

WHY BENNETT IS THE FIREPLACE



All Popular Sizes — 27" — 31" — 35" — 39" — 43" — 49"



Give your customers

1. **FLUE CONNECTION** — Fits correct size of standard flue tile.
2. **EXTRA LARGE SMOKE FUNNELING CHAMBER** — Capacity for the largest fires with smooth-formed gradual "funneling" from throat to flue.
3. **TIGHT-CLOSING THROAT DAMPER** — "Seats" all around. No heat loss or cold down-drafts when fire is out.
4. **SIMPLE DAMPER CONTROL** — Fully adjustable to avoid waste excess draft. No springs or frictions to fail mechanically. Choose either "poker" (as shown) or convenient outside "rotary" handle.
5. **OPENING WIDTH** — Sized so that standard brick can be used in mantel face without cutting.
6. **OPENING HEIGHT** — Higher to give a better view of the fire and more radiant heat. Adequate for an arched opening if wanted.
7. **OPENING DEPTH** — Scientifically proportioned for adequate fuel capacity, draft safety margin, more radiant heat, better view of fire.
8. **ALL-AROUND SEALING FLANGE** — Holds rock wool in place behind overlapping masonry. Prevents smoke leaks and heat loss.
9. **COLD AIR FLOOR INLETS** — Placed for convenient connection with various possible grille locations. Sized for free, unrestricted circulation.
10. **FIREBOX HEATING CHAMBERS** — Both back and side walls angled for greatest heat radiation and conduction. Graduated weights of heavy (up to 1/4 inch) boiler plate for even heat distribution. Doubled-welded construction — more expensive to manufacture than "one-piece" but stronger by test.
11. **EXTRA BAFFLES** — These longer baffles conduct incoming cool air around to the heat center at the firebox back wall. Give extra heat; even firebox temperatures.
12. **WARM AIR OUTLETS** — Large sized for unrestricted flow. Placed for convenient low-cost construction of ducts to various possible outlet grille locations.



The market is bigger than ever

in . . .

Homes

Basement Playrooms

Camps

Vacation Cottages



BENNETT
Simplified — Standardized
FIREPLACE FORM

FORM TO SELL

the best buy the greatest value

It's Bennett because . . . it's **Simplified** for savings in manufacturing costs which are passed on to **you**. Less cash outlay — more profit on every sale.

because . . . it's a Complete Unit — Firebox, Throat Dampers, Down-Draft Shelf, Heating Chambers and Smoke Dome — designed for TODAY'S building conditions.

because . . . it's **Standardized** to lay up faster, easier. Every size fits standard brick . . . eliminates cutting and fitting. So, it's faster and easier to build — powerful **buy reasons** for your customers.

because . . . it's designed, built and **guaranteed** by Bennett — authorities in fireplaces for 25 years.

because . . . it fits any fireplace design and is hidden **within** the masonry, so the appearance of the mantel design is not affected.

because . . . the Bennett sales promotional program is equal in effectiveness to any advertising or merchandising plan offered in the field. We concentrate our selling where it helps you the most . . . to the mason contractor.



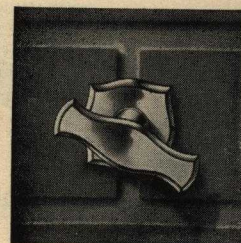
Gain sales with these exclusive BENNETT features . . .

Choice of Grille Designs

Only Bennett gives your customers the choice of four Grille Designs . . . decoratively cast and economically stamped.

Rotary or Ratchet Control

The convenience of Rotary Damper Control turns many sales. Only Bennett offers this extra feature.



WHAT

OTHER BENNETT PRODUCTS TO

Choose the BENNETT Throat Damper that is right for your market

Each with interchangeable Rotary or Ratchet Control

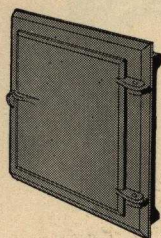


Bennett Expanslip

Higher quality, lower installed cost because the higher (60°) front slope forms more of the throat . . . assures stronger draft. Heavy steel plate with rugged slip-joint eliminates cracking of masonry or breakage in shipping or handling. C-101 is made in all sizes for openings 22" to 74" wide.

PROFIT ACCESSORIES

Sell these "extras" . . . increase your discounts . . . save on transportation . . . speed up turn-over.



Bennett Clean-Out Doors

Extra fine, smooth castings. Tight closure with crimped, galvanized masonry ties. C-213. Sizes 8" x 8" and 12" x 8".



Bennett "Deep-Seat" Ash Dump

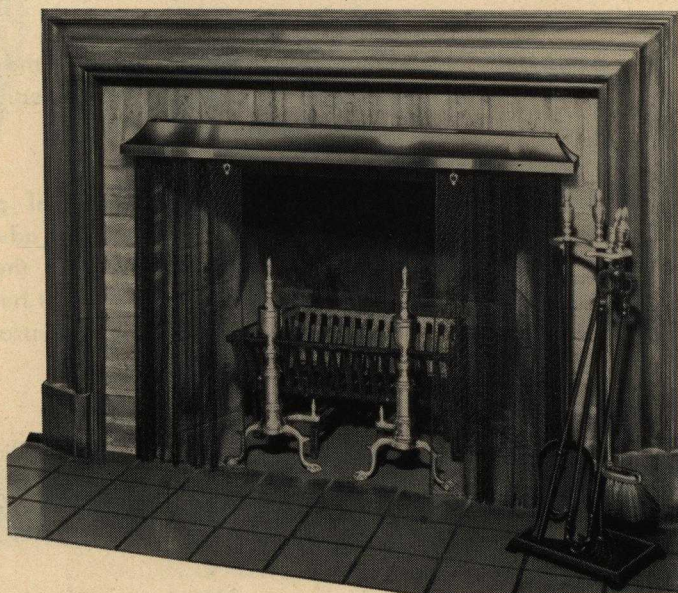
Extra heavy to withstand fire. Extra deep frame keeps dump in place permanently. C-203. Fire brick. Size 9" x 4½".



Bennett Lintel Bars

Each length in proper weight structural angle iron to carry load of span. C-221. In nine sizes for 24" to 72" openings.

Double your sales . . . You



Flexscreen

This extremely popular curtain-type fire screen adds \$'s to many building materials dealers' sales . . . in and out of season. Profit margins are high on all fireplace furnishings.

Andir

Bennett
wide s

BRING YOU MORE PROFITS



Bennett Steep-Slope

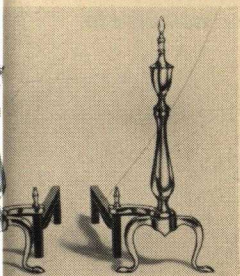
A quality cast-iron damper at competitive price. Superior casting machines in our foundry make possible its steep (50°) slope which means better draft. No. C-103 has a heavy **unconditionally guaranteed** steel valve. C-103 is now made in 30", 33", 36", 42" and 48" sizes.



Bennett Steep-Slope (All-Cast)

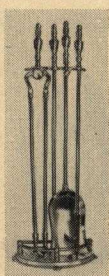
This is the finest all-cast damper made, having the same frame as the C-103 with a heavy cast iron valve. We are proud of its quality and smoke-free design that saves cutting and fitting the brick work . . . saves the mason's time. C-104 comes in four popular sizes — 30", 33", 36" and 42".

our customers need these furnishings, too.

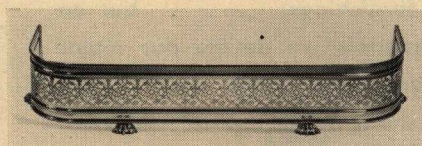


Tongs and Firesets

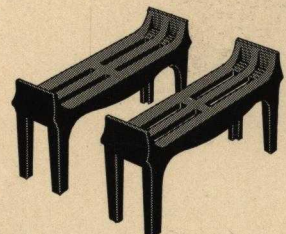
offers these and other furnishings in a selection of designs or sizes.



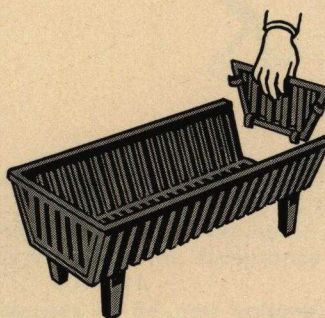
FIRE-LIGHTERS



FENDERS



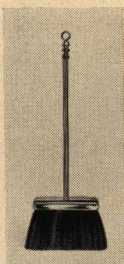
LOG DOGS



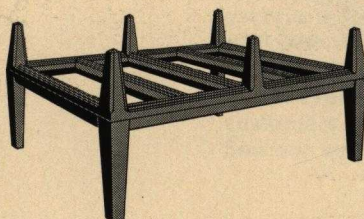
BASKET GRATES



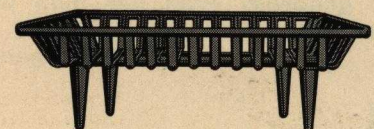
WOOD BUCKETS



HEARTH BRUSHES



WOOD GRATES



Ask for special merchandising story on these extra profit items

WHO REALLY BUYS BUILDING

IS IT THE HOME OWNER ?

Does the home owner really know — or care — what "make" of throat damper is in his fireplace? No — just so long as the fireplace does not smoke and the damper stands up and operates well, he doesn't. We respect the home owner and advertise to him (forcefully on **decorative furnishings**) . . . but on **construction materials** we devote our major efforts elsewhere. The **home owner buys only once** . . . he is not a "repeat" customer.



THE ARCHITECT ?

The architect sets the "pace" in his locality. His opinions on specific products are studied . . . tested . . . respected . . . followed. Once convinced, he continues to specify that product . . . and others follow his lead.



MATERIALS



THE BUILDER ?

The prospective home owner may know one "name" product from consumer advertising. The builder knows from experience which of several makes offer the best value, all costs considered. His client should . . . and usually does . . . take his advice because **the builder uses the product again and again.**



THE MASON ?

YES, he is definitely a **natural** customer with positive preferences based on the experience of his **own hands**. When he finds a good product he sticks to it.



BENNETT makes products that these real consumers learn to respect. Once sold, they remain loyal, repeating customers. We do advertise to the prospective home owner, but . . . Bennett's success is firmly based on the acceptance of the ARCHITECT . . . BUILDER . . . MASON. The strong increases in Bennett volume come from concentrating our advertising and sales efforts to gain still more **repeating** customers for our dealers. See our success formula on the following page.



HOW BENNETT BUILDS REPEAT BUSINESS

NATIONAL ADVERTISING

MASON MAILINGS

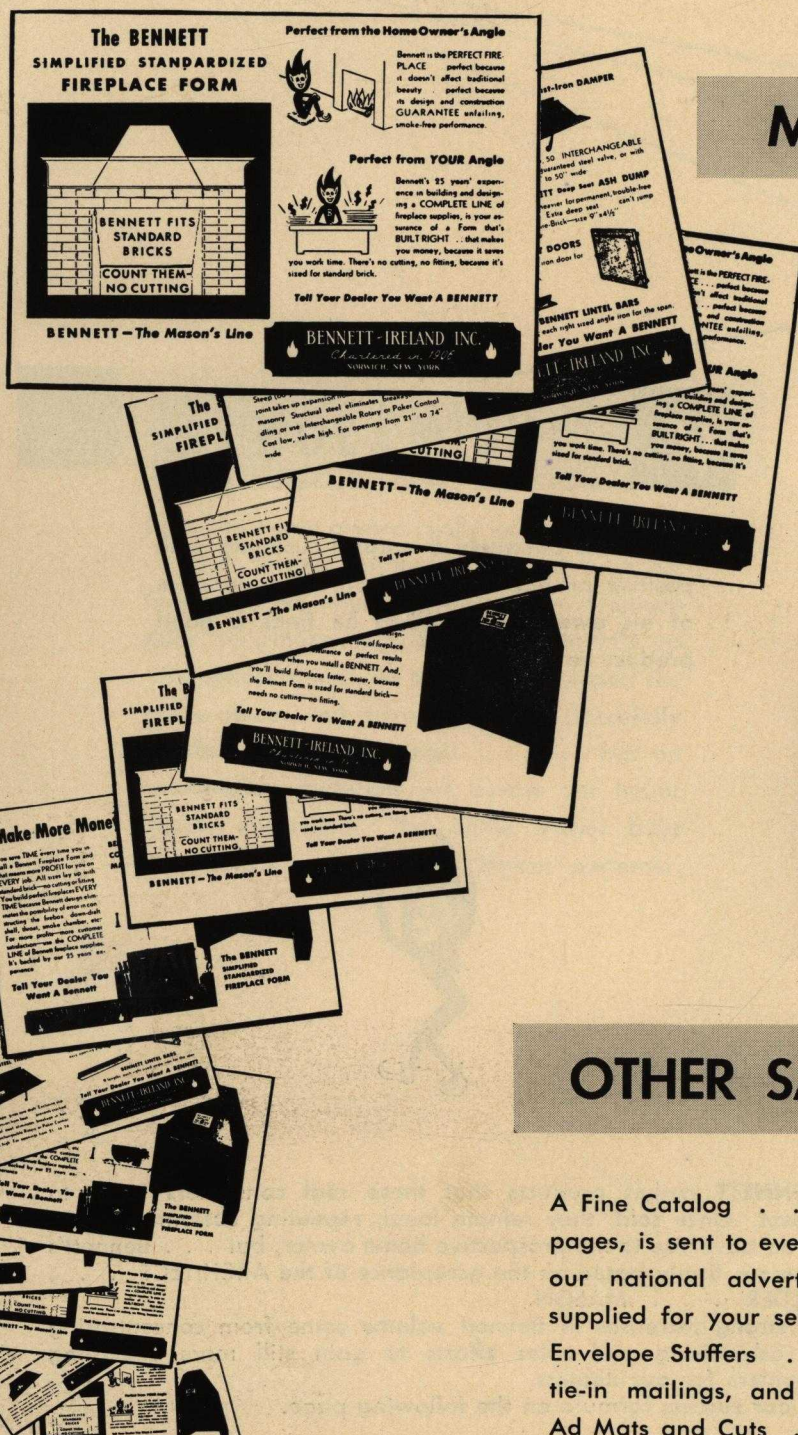
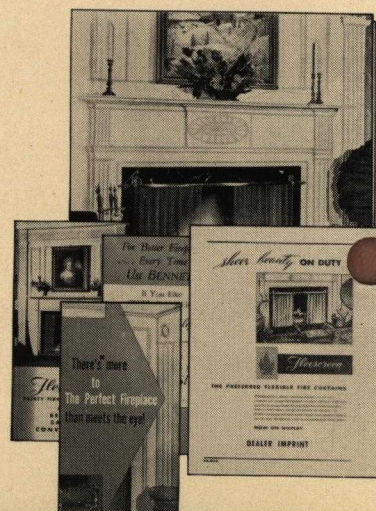
We circularize your selected list of local home building masons regularly . . . every 60 days . . . year in and year out. These mailings are a **proven** business builder . . . one that is followed up by our salesmen with personal calls. Work up your list with him.

Bennett's Advertising and Merchandising Program Equals Any Plan Offered In Effectiveness For You

OTHER SALES HELPS FOR YOU

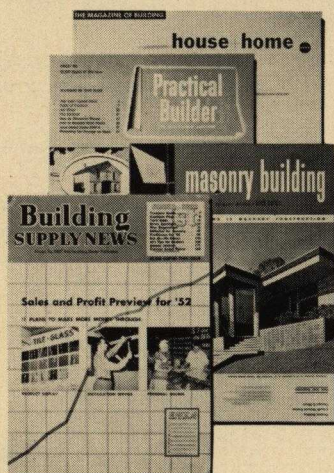
A Fine Catalog . . . 4 color, 20 pages, is sent to every inquirer from our national advertising. It's also supplied for your selected prospects. Envelope Stuffers . . . for your tie-in mailings, and bill enclosures. Ad Mats and Cuts . . . for local publicity.

Use Enclosed Card
To Order These Supplies



SINESS FOR YOU

SING to the Architect • Builder • Mason



In their trade papers we are using more space than ever before because it pays in **repeat customers** for you. You'll see large-space Bennett ads regularly in

HOUSE & HOME MASON BUILDER PRACTICAL BUILDER

AMERICAN BUILDER BUILDING SUPPLY NEWS

FOR EXTRA FIREPLACE FURNISHING SALES

Bennett has a complete, sales-proven program to bring you business on Flexscreens, Andirons, etc., etc. Ask for Booklet MA-1.

NATIONAL ADVERTISING to the consumer

Aimed at interest and inquiries in **your** locality, Bennett runs a substantial program on all its products in these fine magazines:

SMALL HOMES GUIDE AMERICAN HOME
HOUSE BEAUTIFUL LIVING HOUSE & GARDEN
BETTER HOMES & GARDENS

Tens of thousands of inquiries from these ads go to Bennett dealers . . . produce business for him on Bennett . . . and other lines, too. **Each inquiry goes to only one dealer** . . . they are worth following up.

**BUT MOST IMPORTANT OF ALL
IS YOUR BENNETT SALES FORCE**



THIS IS YOUR SALES FORCE



Bennett's main merchandising efforts and expenditures are directed at the "grass roots" . . . at point-of-sale detailing of the Architect, Builder and Mason . . . at **your repeating customers.**

Bennett does far more of this kind of promotion, and we know it pays . . . for us and our whole-hearted accounts.

These men . . . this outstanding sales organization . . . is your sales force. Use them to build your business with Bennett.



EASTERN DIVISION

William N. Rice, Division Mgr.
Norwich, New York

R. B. Dean
28 Conestoga Drive
Pittsburgh 34, Pa.
Ph.: Colonial 3-4349
J. E. McIntyre
637 Salem Avenue
Elizabeth, N. J.
Ph.: Elizabeth 3-7789

J. A. Flanagan
281 Newbury Street
Boston 15, Mass.
Ph.: Kenmore 6-6934
Robert Marcy
Greene, New York
Ph.: 323-Y-22

J. A. Flanagan, Jr.
55 Higbie Drive
E. Hartford, Conn.
Ph.: Hart. 8-8533
W. V. Nelson
5 Easton Road
Warrington, Pa.
Ph.: Doylestown 5902



SOUTHEASTERN DISTRICT

D. E. DuPler, District Sales Mgr.
Davidson, North Carolina

Leo T. Ronan
P. O. Box 115, Northside Branch
Atlanta, Georgia
Ph.: Vernon 2514

Warner & McAllister
P. O. Box 297
Miami 42, Florida
Ph.: 48-9398 or 7-0285



CENTRAL DIVISION

Owen A. Zapel, Branch Manager
499-503 Pennsylvania Ave., Glen Ellyn, Ill.

L. C. Brady
483 South Race Street
Denver 9, Colorado
Ph.: Race 2925
Henry Churchman
Dealers Supply Co.
1067 East 54th Street
Indianapolis 20, Indiana
Ph.: Broadway 2454
R. B. Warn
1222 Inglenook Place
Cincinnati 8, Ohio Ph.: East 2440

L. B. Briner
2516 N. 67th Street
Milwaukee 10, Wisconsin
Ph.: Glenview 3-6974
Robert P. Ingram & Co.
502 Merchandise Mart
Kansas City 8, Missouri
Ph.: Baltimore 1800
G. L. Wilcox
16 St. Albans Road
Minneapolis, Minn.
Ph.: Hopkins 8051

A. E. Butters
37 E. Church Street
Clarkston, Michigan
Ph.: Maple 5-3771
J. W. L. Todd
Dickson and North Broadway
St. Louis 6, Missouri
Ph.: Day - Garfield 4065
Night - Republic 0806



SOUTHWESTERN DISTRICT

Russell Blalock Sales Co.
8211 Midway
Dallas 9, Texas
Ph.: Dixon 4-8585

Tom Fielder Company
313 Northwest 4th Street
Oklahoma City 2, Oklahoma
Ph.: 2-2417



PACIFIC DIVISION

Wm. J. McGee Company
403 Maritime Bldg.
Seattle 4, Washington
Ph.: Main 8717

Frank A. Law, Mfrgr.'s Rep.
420 Market Street
San Francisco 11, California
Ph.: Sutter 1-8854

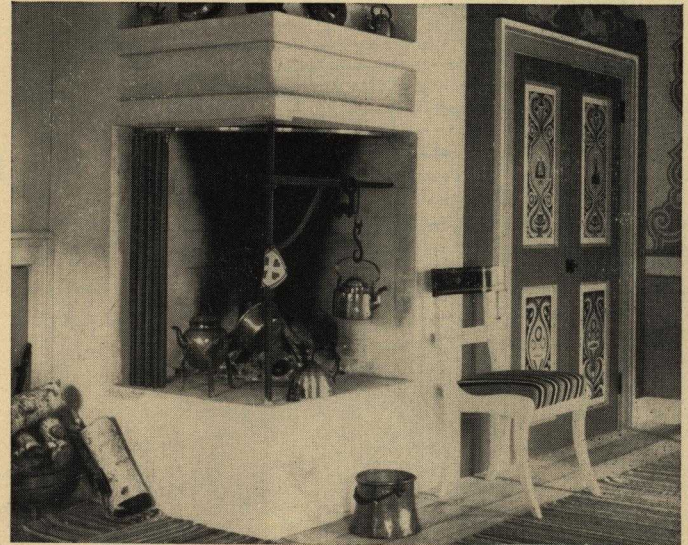
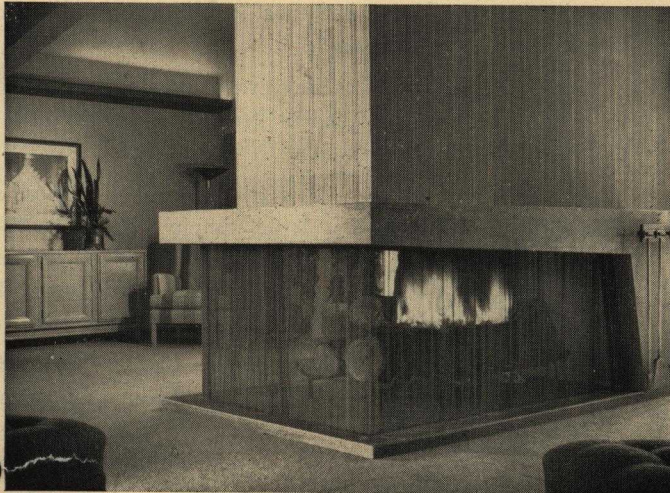
WE SELL FOR OUR ACCOUNTS, NOT TO THEM

BENNETT - IRELAND INC.

Chartered in 1906
NORWICH, NEW YORK

THE UNIVERSAL *Beneform*[®] DAMPER

Modern desire for a broader view of the fire on the hearth — from different angles of the room or even from other rooms — has created "projecting corner" fireplaces and types which are open on two or three sides, or even all around.



The usual throat damper is shaped and proportioned specifically for the conventional single-opening fireplace. It is not suited to the newer multi-opening types for several reasons:

1. *Flue and Throat Capacity* — The usual damper is designed for a relatively fixed size of fireplace opening, and the throat capacity is adequate only for a flue of proportionate ratio.

Multi-sided fireplaces always require larger flues, and since they vary in opening area, the flue size must vary proportionately. If too small, the fireplace will smoke; if too large, there will be excessive exhaust draft heat loss.

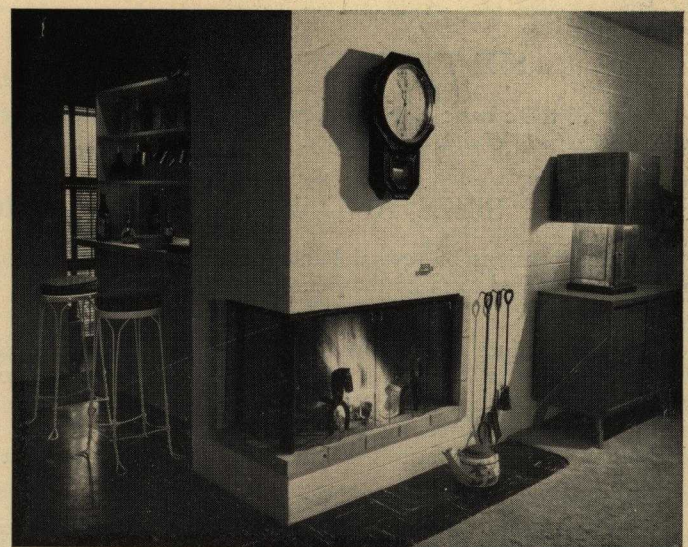
2. *Throat Shape* — The "conventional" damper has a long, narrow shape to make the fire burn evenly across the back wall. Multi-opening fireplaces need a broad, high funneling shape to promote draft *everywhere* on the hearth.

Also, a high, gradually sloped throat offers less obstruction to draft — important in these days of lower chimneys.

3. *Construction Problems* — The "conventional" damper is designed only for one set form of construction and is adaptable to other types only at high cost in the mason's time.

Special lintel supports are needed for multi-openings, and there is always much expensive corbeling to shape the throat to meet the damper frame in a way which avoids smoke-obstructing ledges.

Also, the chimney rarely lies directly above these newer types of fireplaces but is set to one side or another in a wall. With the usual damper this requires slanting and turning the flue. This adds to construction costs and weakens the draft.



A corner fireplace in one of the many Levitt homes, for which Bennett-Ireland have been supplying dampers since 1938.

This *universal* damper was developed by an organization which has specialized on fireplaces for over 25 years. The design was based on experience gained from building many thousands of special dampers for such unusual fireplaces as those in Levitt houses, where final "installed" costs must be studied as closely as perfect, smoke-free construction.

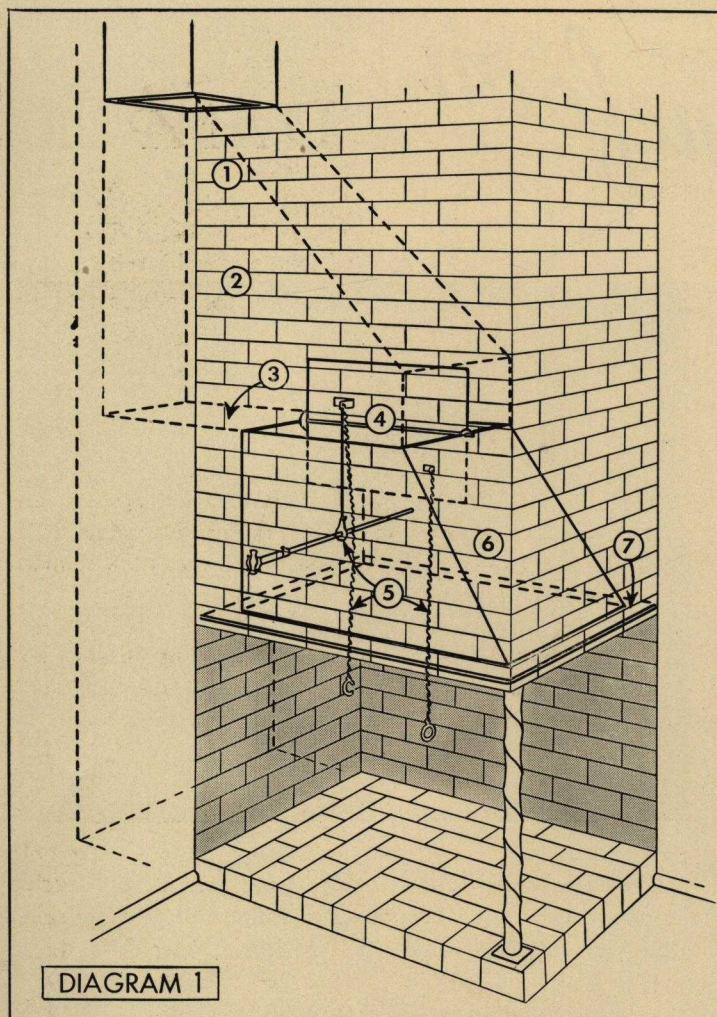
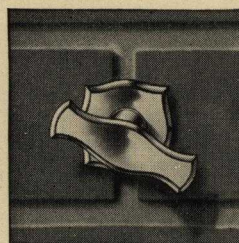


DIAGRAM 1

CHECK THESE 7 IMPORTANT POINTS AND ADVANTAGES

1. *Flue Tile* — Size is varied with the size and height of opening. It may be located to the left of the outlet as shown or on any one of the three other sides depending on the best location for the chimney.
2. *Combustion Chamber* — This can be generous in size and yet so located that it does not interfere with other construction requirements.
3. *Down Draft Shelf* — The flue tile must never be set directly above the damper outlet. If it is, air puffs can blow straight down the chimney and force smoke into the room. By offsetting it, an effective baffle or "shelf" against down drafts is formed in the masonry.
4. *Damper Valve* — The heavy valve pivots to tight closure, yet is removable. Permanent tension, unaffected by heat, allows exact draft adjustment.



5. *Valve Control* — Choose either the simple "chain pull" with heavy "O" and "C" pulls or the convenient outside brass "Rotary Control," shown at left.
6. *Complete Throat Form* of heavy steel properly and smoothly shapes the throat and allows rapid laying of masonry.

7. *All-Around Structural Lintel* — Each side has a flange of adequate structural strength to carry any load on its span.

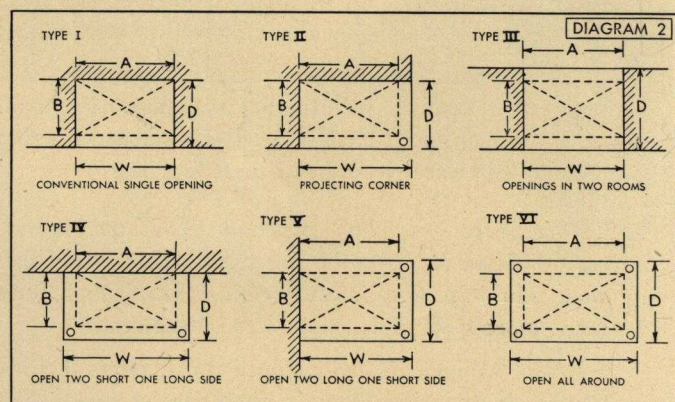
SIX TYPES OF FIREPLACES

Any of these basic types of fireplaces can be constructed properly with a *Beneform Universal Damper*.

FIREPLACE SIZES AND DAMPER DIMENSIONS

The dimensions of several hundred different multi-opening fireplaces were studied to make the Beneform Damper "universal" in size as well as shape.

The dotted lines in Diagram 2 show the location of the damper. The various sizes in which it is made (dimensions A and B) are given in the table below together with the corresponding approximate hearth sizes (W x D) are listed for each basic fireplace type. These hearth sizes allow for mantel facings 4" thick. They should never exceed 6".



HEARTH DIMENSIONS (WIDTH X DEPTH) FOR FIREPLACE TYPE:

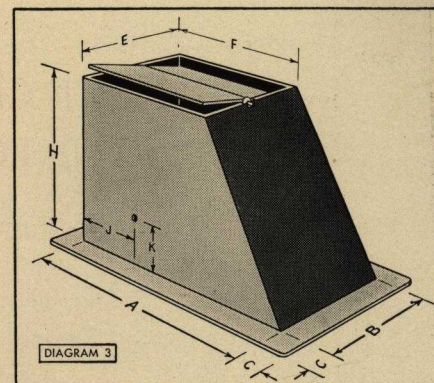
DAMPER SIZE

A x B	I	II	III	IV	V	VI
27 x 27"	27 x 31"	31 x 31"	27 x 35"	35 x 31"	31 x 35"	35 x 35"
33 x 33"	33 x 37	37 x 37	33 x 41	41 x 37	37 x 41	41 x 41
33 x 18"	33 x 22	37 x 22	33 x 26	41 x 22	37 x 26	41 x 26
39 x 18"	39 x 22	43 x 22	39 x 26	47 x 22	43 x 26	47 x 26
44 x 18"	44 x 22	48 x 22	44 x 26	52 x 22	48 x 26	52 x 26
50 x 24"	50 x 28	54 x 28	50 x 32	58 x 28	54 x 32	58 x 32

UNIVERSAL *Beneform* DAMPER DIMENSIONS

INTAKE (INSIDE) A AND B	LINTEL FLANGE C	OUTLET OPENING E AND F	DAMPER HEIGHT H	ROTARY HANDLE	
				J*	K*
27 x 27"	3"	18 x 24"	20"	8"	5"
33 x 33"	3	18 x 24	24	8	9
33 x 18"	3	18 x 24	24	8	9
39 x 18"	3	18 x 24	26	8	11
44 x 18"	3	18 x 24	26	8	11
50 x 24"	3	24 x 24	30	8	15

* An alternate location is on opposite side of damper.



HEIGHT OF FIREPLACE OPENING

With the *Universal Damper* the flue tile size used depends on the height of opening.

Unusually high openings can be built. However the trend of architectural design is towards long, horizontal lines, and openings are lower than formerly.

A low opening is also desirable for strong, smoke-free draft. Multi-sided fireplaces demand much larger flues to maintain the

proper ratio with the area of the opening, and this "normal" ratio must be increased further to allow for air currents in the room which may blow *through* the firebox. Today's low chimneys, too, call for a larger flue ratio.

These tables below give maximum opening heights using various flue tile sizes for each type of fireplace and size of Universal Damper:

TYPE I

DAMPER SIZE	FLUE TILE SIZE				
	8½ x 13	13 x 13	13 x 18	18 x 18	18 x 24
27 x 27"	32"	48"	—	—	—
33 x 33"	27	32	54"	—	—
33 x 18"	27	32	54	—	—
39 x 18"	24	27	48	54"	—
44 x 18"	21	24	42	48	—
50 x 24"	—	21	30	42	54"

TYPE III

FLUE TILE SIZE			
13 x 18	18 x 18	18 x 24	24 x 24
32"	42"	—	—
27	36	42"	—
27	36	42	—
21	30	36	42"
—	21	32	42
—	—	27	36

TYPE V

FLUE TILE SIZE		
18 x 18	18 x 24	24 x 24
24"	32"	39"
21	27	32
27	36	42
24	30	39
21	24	32
—	21	27

TYPE II

	13 x 13	13 x 18	18 x 18	18 x 24	24 x 24
27 x 27"	21"	32"	42"	48"	—
33 x 33"	—	27	36	42	48"
33 x 18"	21	33	42	—	—
39 x 18"	21	30	39	42	—
44 x 18"	—	24	36	42	—
50 x 24"	—	21	30	39	42

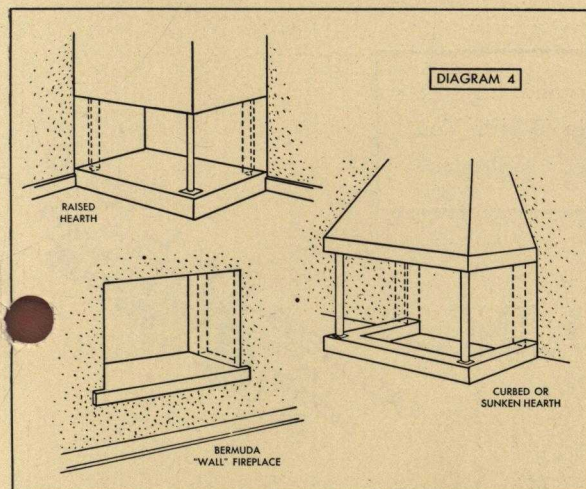
TYPE IV

13 x 18	18 x 18	18 x 24	24 x 24
21"	28"	36"	42"
—	24	30	36
24	36	42	—
21	33	42	—
—	28	36	42
—	24	30	39

TYPE VI

18 x 18	18 x 24	24 x 24
18"	24"	32"
—	21	26
21	28	36
18	26	32
—	21	28
—	—	24

Because of cross-drafts from the room, fireplaces should not be built with greater net height of opening than is shown for each type and damper size.



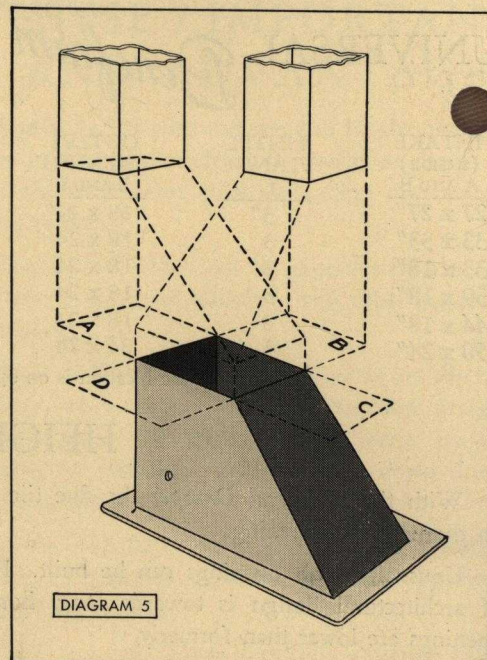
Curbed or sunken hearths, raised hearths and even Bermuda style "wall" fireplaces, as illustrated on the left, are among the means used of reducing the *net* height of the opening and at the same time achieving good architectural effect.

The dotted lines illustrate how side walls often are extended to reduce cross drafts, give the effects of larger openings or to reduce the flue size. The full sized damper is used in such cases but with a proportionately smaller flue tile.

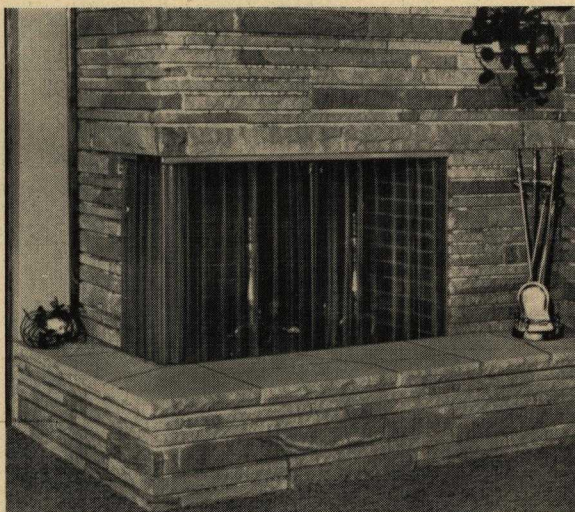
ALTERNATE CHIMNEY FLUE CONNECTIONS

It often happens in conventional type fireplaces, and almost always in other types, that the chimney cannot be located where the flue can run straight up from the center of the firebox. The flue must slant or turn and the tile be mitre-cut, and every architect and mason knows how this checks the draft and increases construction costs.

DIAGRAM 5 shows how the down draft shelf can be built at any one of the four sides (A, B, C or D) of the damper outlet, depending on the best location for the chimney and flue. In fact by turning the damper there are at least eight (with the square sized dampers there are sixteen) possible flue locations.



COMPLETE YOUR FIREPLACE



with

Flexscreen
REG. U.S. & CANADA PAT. OFF.

FIREPLACE CURTAIN

Striking in its appeal on any fireplace, the versatility of *Flexscreen's* gracefully draping curtains makes it the only safe and convenient means of protecting some unusual types.

Many architects use our *Custom Service Department* to develop specifications for a *Flexscreen* that is in keeping with the fireplaces they create.

This same service designs special *Flexscreens* for Developers (Levitt has used tens of thousands) which can be produced in quantity at prices far below the sales appeal value that this nationally advertised product adds to the home.

WRITE for Your Free *Flexscreen Catalog* Showing the Variety of Designs, Finishes and Sizes in Which You Can Obtain This Attractive and Appealing Product.

BENNETT - IRELAND INC.

Chartered in 1906
NORWICH, NEW YORK

ADDRESS J. W. L. TODD
FACTORY REPRESENTATIVE
DICKSON NORTH BROADWAY
ST. LOUIS 6, MISSOURI

BENNETT FIREPLACE MATERIAL

(For Bennett *Warm-Aire* and *Fresh-Aire* Fireplace Forms ask for Catalog V-1)

Over 25 years of making fireplace building materials and studying masons' problems have helped us design our products so that they please all masons who use them. The size and shape of all items are based on standard brick to save cutting and fitting, making the mason's work easier. Long experience also has shown us how to build better products at low cost. Each year more masons use Bennett Products — *Bennett is "The Mason's Line."*

Do You Like a Steel Damper? . . . Use "Expanslip"
Prefer Cast Iron? . . . Then Choose "Steep-Slope"



BENNETT

Expanslip®

STEEL PLATE DAMPER

Steel (heavy boiler plate) dampers have thoroughly proved their long life in the heat and corrosive fumes of a fireplace. Not brittle like cast iron, there is no *expensive and troublesome breakage* in shipping, handling, setting or after it is built in. Consequently *Expanslip* is preferred by an increasing number of masons.

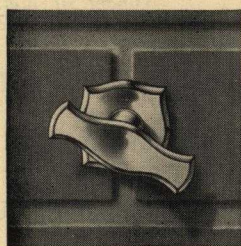
THE EXPANSLIP FEATURE

Many fireplaces develop unsightly cracks in the facing after use. Often this is caused by expansion in the frame of the damper, when heated, thrusting against the masonry.

In the front of the Expansion damper (all sizes over No. 33) is a simple sturdy slip joint. As heat expands the damper, it "telescopes" instead of damaging the masonry or itself.

RATCHET OR ROTARY CONTROL

Regularly supplied with ratchet (inside) control, extra parts easily convert Bennett dampers, except Sizes 60 and 72, to rotary (outside) control with convenient decorative solid brass turn-knob.



PROPORTIONAL SIZING

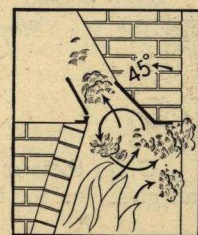
Greater throat capacity is required for wider fireplaces because they are also higher and deeper. Expansip dampers are larger in *all* dimensions as the width increases. Also the thickness of boiler plate runs from 1/8" in Sizes 24 through 42 to 3/16" in No. 48 and 1/4" in Sizes 60 and 72.

BENNETT'S SIZE NUMBERS

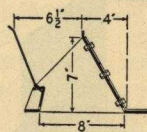
Bennett's size numbers show the actual width across the *inside* of the damper at the front. It is therefore proper to build the fireplace opening as much as two inches wider than our size number. Some manufacturers number their dampers taking this, or an even greater safety margin, into consideration.



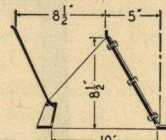
EXPANSION 60° SLOPE



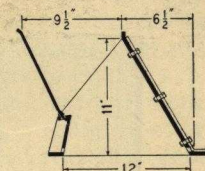
USUAL 45° SLOPE



Nos. 24 through 42



No. 48



Nos. 60 and 72

SIZE OF DAMPER	No. 24	No. 30	No. 33	No. 36	No. 42	No. 48	No. 60	No. 72
Foundation Size (min.) see p. 3	48 x 24"	52 x 28"	56 x 28"	68 x 28"	72 x 28"	76 x 32"	96 x 36"	116 x 40"
Width of Opening (max.)	26"	32"	35"	38"	44"	50"	62"	74"
Height of Opening (max.)	30"	30"	30"	30"	30"	36"	42"	42"
Depth of Opening (aver.)	16-18"	18-21"	18-21"	18-21"	20-22"	24-26"	26-36"	30-36"
Flue Size (over 20' high)	8 1/2 x 8 1/2"	8 1/2 x 13"	8 1/2 x 13"	13 x 13"	13 x 13"	13 x 18"	18 x 18"	18 x 18"
(under 20' high)	8 1/2 x 8 1/2"	8 1/2 x 13"	13 x 13"	13 x 13"	13 x 18"	18 x 18"	18 x 18"	18 x 24"
Width of Front Flange	*2 1/4"	*2 1/4"	*2 1/4"	*2 1/4"	1 1/2"	1 1/2"	1 1/2"	1 1/2"

* Front Flange may be used to support arch, saving need of Lintel Bar.

11 1/2" 11 1/2" 11 1/2"

ADDRESS J. W. L. TODD
FACTORY REPRESENTATIVE
DICKSON & NORTH BROADWAY
ST. LOUIS 6, MISSOURI

BENNETT FIREPLACE MATERIALS



Steep-Slope

CAST - IRON DAMPER

These dampers are cast in our completely modern foundry which has special moulding machines and other equipment for high quality, low cost production.

These facilities make it practical to cast a damper with an unusually high, steep front and have an even thickness of metal throughout. There are no thin spots or weak sections in *Bennett* dampers.

Our heavy machines can mould two dampers at one time, lowering the cost to you while quality is increased.

STEEP FRONT SLOPE

We emphasize this feature in the name because of its importance. Most cast dampers are lower and flatter, choking the flow of smoke. *Steep-Slope* gives 10 degrees better "funneling" than average — nearly equal to *Expanslip's* 60° front (see page 1 for story and diagrams on this point).

HIGH FRONT

The front is unusually high for a cast damper, shaping the throat more completely and assuring better draft.

EITHER CAST OR STEEL VALVE

Cast valves are especially liable to breakage so for many years we have offered steel valves with such fine experience we can *guarantee them unconditionally*. The cost for the damper with a steel valve is lower, too.

Many masons, however, still prefer a cast valve and we offer the *Steep-Slope* damper either way.

LESS WORK

This high front saves time and care around the throat and otherwise the shape and dimensions of this damper fits the brick better, eliminating extra cutting and fitting.

RATCHET OR ROTARY CONTROL

You can have either ratchet or rotary on this damper. The rotary handle is illustrated on page 1 and the simple proven parts on page 3. Notice that there are no springs or frictions, no pull chains or counter-weights.

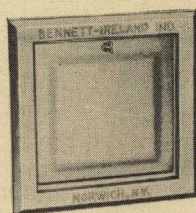
SIZES AND SPECIFICATIONS

SIZE OF DAMPER	No. 30	No. 36	No. 42
Foundation Size (min.) see p. 3	52 x 28"	68 x 28"	72 x 28"
Width of Opening (max.)	32"	38"	44"
Height of Opening (max.)	30"	30"	30"
Depth of Opening (aver.)	18-21"	18-21"	20-22"
Flue Size (over 20' high)	8½ x 13"	13 x 13"	13 x 13"
(under 20' high)	8½ x 13"	13 x 13"	13 x 18"

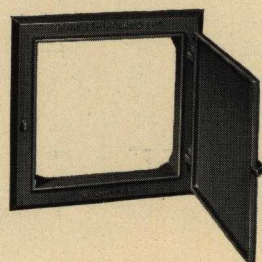
OTHER BENNETT FIREPLACE MATERIALS

Order these minor items delivered to the job with the damper or fireplace form. It saves you trouble shopping around and gives you the best quality equipment at prices which save.

CLEAN - OUT DOORS



SCREW-TITE
C-211 or C-212



HINGED TYPE
C-213

Bennett gives you a choice of two types of doors:

HINGED TYPE — This is the standard design of clean-out, but with frame and door cast from patterns which give an exceptionally clean cut, attractive appearance (Cat. No. C-213).

SCREW-TITE — Lower in cost. Comes either in all aluminum for high rust resistance and fine appearance (C-212) or with cast iron frame and heavy steel door (C-211).

Each comes complete with crimped galvanized tie wires in brick-fitting sizes, 8" x 8" and 12" x 8".

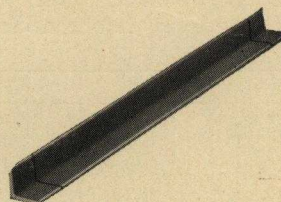
ASH DUMP — "DEEP - SEAT"

This extra heavy *Bennett* cast iron ash dump is very popular. The firebrick sized frame "seats" deep in the hearth and can't be dislodged.



Cat. No. C-203, size 9" x 4½"

LINTEL BARS

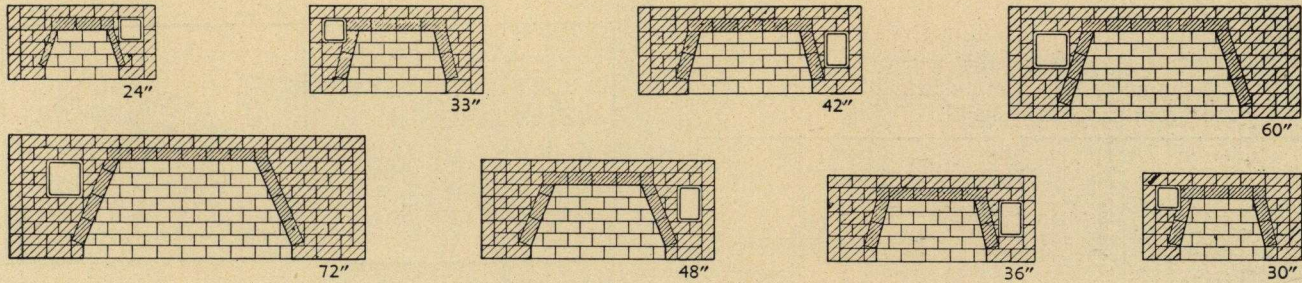


Each *Bennett* Lintel is made from the right weight and size of angle to support its length of span without spring or sag. Lighter bars or angles are often the cause of cracked masonry.

Cat. No. C-221 for 24", 27", 30", 33", 42", 48", 60" or 72" widths of opening. (Proper extra length is allowed over these lengths of span for footing at each end.)

SUGGESTIONS FOR FIREPLACE CONSTRUCTION

TYPICAL HEARTH LEVEL PLANS — To Scale, Count Bricks



FOUNDATION SIZE

It helps to lay out the plan of the fireplace, making allowance for flues for the furnace, stove or other fireplace. Foundation sizes vary and those shown above are the *smallest* that will make a well proportioned job.

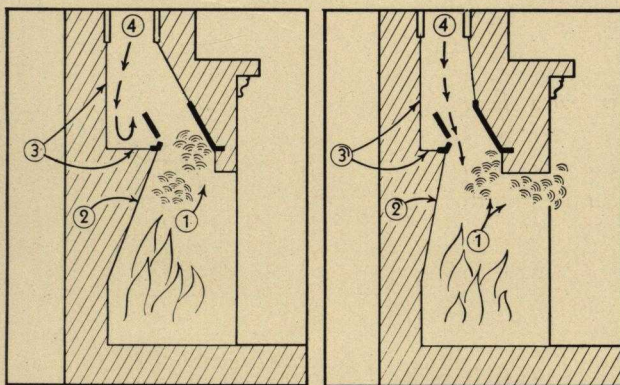
OPENING SIZE AND FIREBOX

The opening must not be wider or higher than specified on pages 1 or 3 for the size of damper used. Firebrick should be used for the firebox hearth, side and back walls. For best heat radiation, each sidewall is angled about 15 degrees and the back wall, after rising straight about 10 inches, slants forward to meet the back flange of the damper.

SETTING THE DAMPER

Set the damper way forward, directly behind the facing course which should not be more than 4 to 6 inches thick. There are four reasons (also see diagrams opposite below) —

1. A thick arch causes smoking.
2. Gives a better heat-reflecting slant to the back wall.
3. Gives room for a broad smoke shelf and generous smoke funneling chamber.
4. Prevents down-drafts from blowing directly into room.



GOOD — Damper well to Front **BAD** — Damper too far back
Numbers refer to reasons given under "Setting the Damper"

LINTEL SUPPORT

Use a substantial lintel support for the arch. Any spring or sag means a cracked facing.

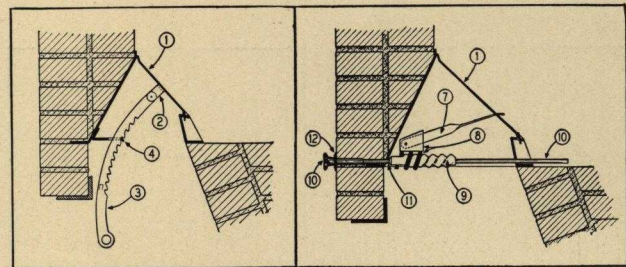
It is best practice to use a separate lintel bar, setting the damper up 4" to 6" above the arch. However, where cost counts, Sizes 24 through 36 of the *Expanslip* damper may be set at the lintel level and the front flange used for the support bar.

DAMPER CONTROLS (See Diagram Below) —

RATCHET CONTROL — The ratchet handle (3) is wired to valve (1). Cut both these wires and that holding the valve shut for shipment. Pass handle, with teeth facing back, up through catch (4) and attach to valve bracket (2) with cotter pin supplied.

RATCHET CONTROL

ROTARY CONTROL



Rotary Controls are not available for Nos. 60 or 72 Expanslip Damper.

ROTARY CONTROL — This convenient optional control is installed as follows: Assemble the parts within the damper as illustrated engaging link (7) in the hole punched in the valve *before* feeding worm (9) onto rod (10). On *Expanslip* Size 48, there is a lock collar (not shown) which is placed on the rod in front of the worm at Point (11). Do not tighten set screws until the facing is laid around the tubed escutcheon (12).

TO ADJUST (Sizes 24 through 42) — Close valve (1) and rotate the worm on the rod within the follower-coil so that there is only a slight clearance between the beveled end of the worm and the front of the damper at Point (11). Then tighten set screw. (*Size 48*) — Close valve and rotate worm on the rod so that the follower-coil is at the front of the worm. Tighten worm set screw. The set collar (not shown) is set at Point (11) with enough clearance to allow the rod to turn easily, yet not pull forward. Test for adjustment by operating several times. Grease if desirable with graphite.

Leave the damper valve open during construction. It is less liable to get jammed by mortar falling down the flue, and the masonry will dry better.

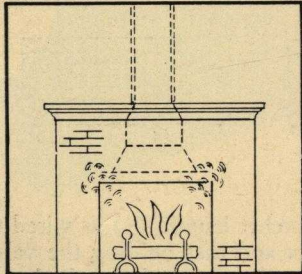
DO NOT BUILD A FIRE in the fireplace for at least 10 days. The masonry must dry and cure thoroughly or it will crack.

Continued on page 4

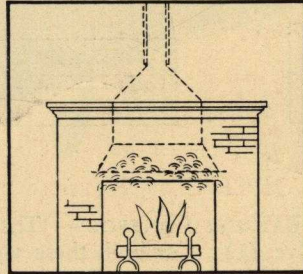
SUGGESTIONS FOR FIREPLACE CONSTRUCTION

SMOKE SHELF AND FUNNELING CHAMBER

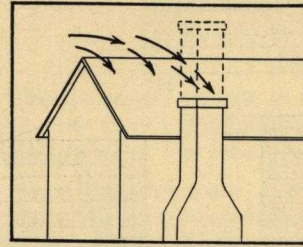
Make these as large as possible and corbel in to the flue tile size very gradually — no more than 6" per foot of rise to give good "funneling" for smoke.



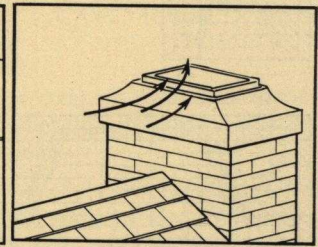
BAD — Too small a damper used. Makes fireplace smoke because both the throat passage and the funneling chamber are too small.



BAD — Flue tile too small. Use full size specified on page 1. **THIS IS MOST COMMON OF ALL CAUSES OF BAD DRAFT.**



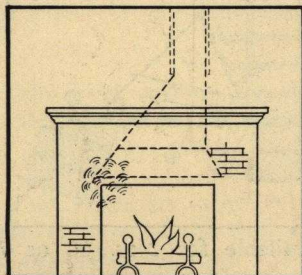
CHIMNEY TOO SHORT — Catches down draft from roof. Should rise at least 2 ft. above any nearby point.



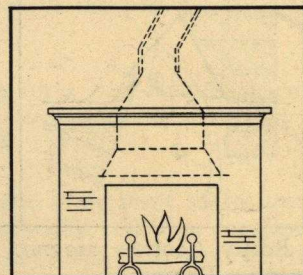
FORM WIND COVE on chimney top by letting 4" to 6" of tile project above cap then filling with mortar.

Build the top of the chimney at least 2 feet above nearby roof peaks or other objects which may cause down-draft. Avoid chimney pots, screens, etc., unless they are sized for full flue capacity (few are).

FLUE AND CHIMNEY



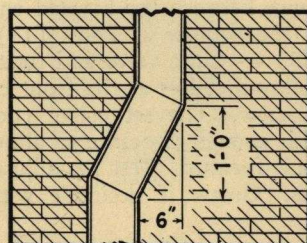
BAD — Do not off-set the funneling chamber. Will smoke at opposite corner.



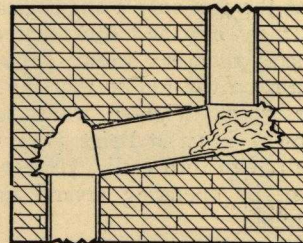
GOOD — If flue must be off-set, start the slant after it leaves funneling chamber.

More fireplaces smoke because the flue is too small or too short than for any other single cause. *Do not skimp on the flue tile size.* And if the chimney is to rise less than 20 feet above the hearth, check the table on page 1 to see if the next larger size should be used.

Always provide a separate flue for each fireplace, furnace and stove. Bad draft almost always results if you try to "double-up."



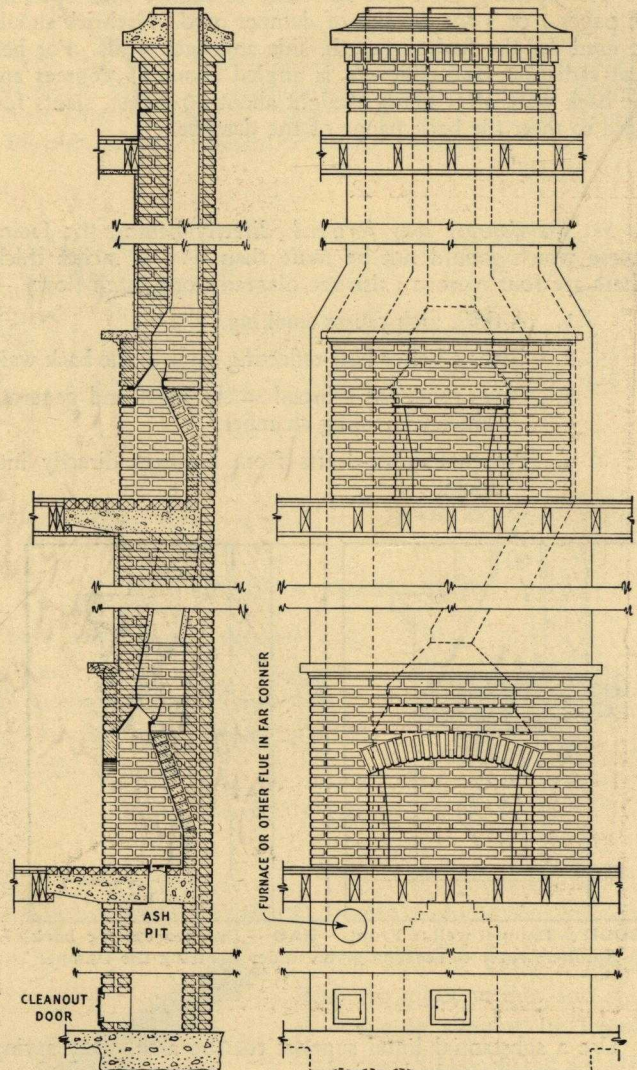
GOOD — If flue must slant, keep it steep and cut tile to fit at turns.



BAD — Flat run kills draft. Soot-clogs gather at turns. Untiled areas make fire hazard.

Always, for fire safety and good draft, use flue lining tile carefully fitted if it turns. Avoid sharp turns and never pitch it more than 6 inches per foot of rise.

TYPICAL DETAILS OF GOOD FIREPLACE CONSTRUCTION

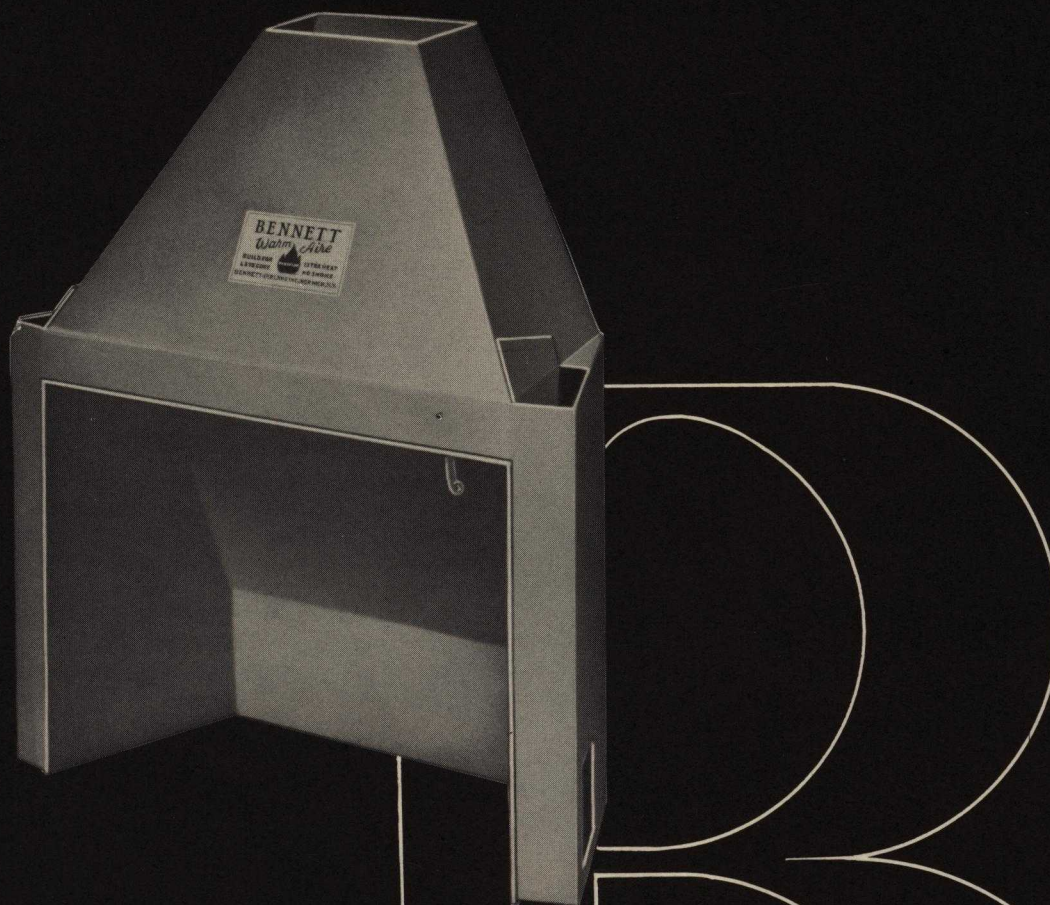


BENNETT - IRELAND INC.

Chartered in 1906

NORWICH, NEW YORK





**IT'S THE SIMPLIFIED - STANDARDIZED
BENNETT FIREPLACE UNIT**

**SIMPLIFIED . . .
for Savings in Cost**

**STANDARDIZED . . .
for Savings in Construction**

*New Sizes that lay up
with Standard Brick,
Without Cutting. . . .*



This is **GOOD NEWS** because . . .

The **BENNETT FIREPLACE** is the **MASON'S FORM**. . It's designed **FOR YOU . . . HERE'S HOW . . .**

SIMPLIFIED . . . To show **SAVINGS** in manufacturing costs.
We pass these **SAVINGS** on to You. Less cash outlay on Your part.

STANDARDIZED . . . To lay up faster . . . easier.
Every size fits standard brick . . . eliminates cutting and fitting.
It's **FASTER** and **EASIER** to build . . . Saving time makes money for you.

ONE IMPROVED COMPLETE FORM

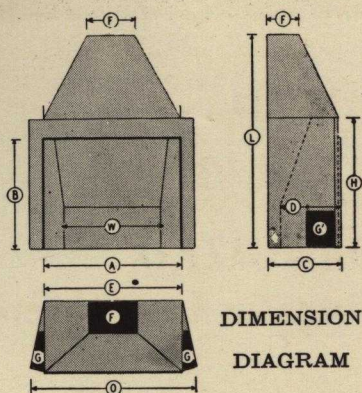
Gives rapid, easy laying up of the masonry; a complete **FIREBOX**, properly proportioned **THROAT**, **DAMPER**, **DOWN-DRAFT SHELF**, **HEATING CHAMBERS** and **SMOKE DOME** . . . all in one **COMPLETE UNIT** that's designed for **TODAY'S** ways of building.

Higher Opening ... Standard Depth

In popular sizes 27" 31"* 35"* 39"* 43" 49"



SIZES AND SPECIFICATIONS



**DIMENSION
DIAGRAM**

SIZE OF FORM	No. 27	No. 31	No. 35	No. 39	No. 43	No. 49
Min. Foundation Size	51 x 30"	55 x 30"	67 x 30"	71 x 34"	75 x 34"	81 x 38"
(often made wider)						
A. Width of Opening (max.)	26"	30"	34"	38"	42"	48"
B. Height of Opening (max.)	26"	26"	27"	28"	30"	33"
C. Depth of Form, Overall	18"	18"	18"	20"	21"	24"
D. Depth of Form, Inside	15"	15"	15"	17"	18"	20"
(For total Firebox Depth, add thickness of facing — usually 4", never exceed 6".)						
E. Width Across Back, Overall ..	27"	31"	35"	39"	43"	49"
F. Flue Lining Tile Size	8 1/2 x 13"	8 1/2 x 13"	8 1/2 x 13"	13 x 13"	13 x 13"	13 x 18"
G. Grille Size either	5 x 8"	8 x 8"	8 x 8"	8 x 8"	8 x 8"	8 x 10"
or	5 x 8"	5 x 14"	5 x 14"	5 x 14"	5 x 20"	5 x 20"
L. Height of Form, Overall	47"	50"	53"	56"	63"	68"
O. Width Across Front, Overall ..	34"	38"	42"	46"	51"	58"
W. Fuel Length (inside back width)	20 1/2"	25"	28 1/2"	32 1/2"	35 1/2"	41"

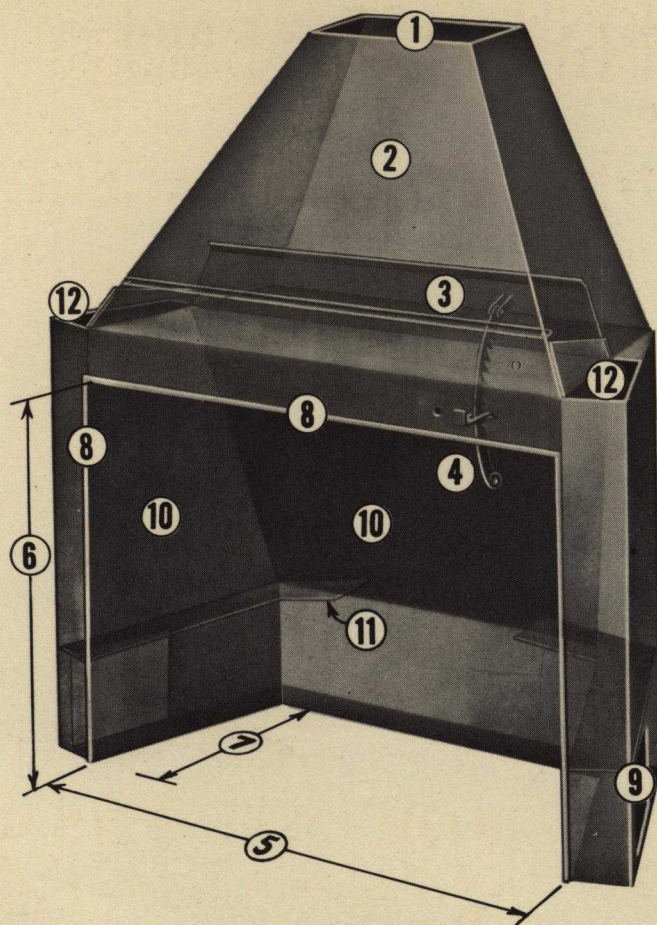
We do not offer larger forms than 48 inch as we have not found them efficient or practical.

* Did you ever try to lay up the face of a 33 or 36 inch opening with standard brick, without cutting?

ORDER A
BENNETT for
YOUR NEXT JOB
Your Dealer has them

BENN

It's the **MODERN FIREPLACE** for Homes, Camps, S...



In the Modern BENNETT FORM Every Feature Serves a Purpose

This BENNETT FIREPLACE heats the whole room, circulates 2 to 3 times the heat evenly throughout the room, to adjoining rooms or upstairs.

Gives all the heat needed in the spring and fall. A booster to the furnace in extreme weather. A safeguard in case of furnace shut-down.

Tempers cold, unhealthy floor drafts. Keeps air "fresher."

Fits any mantel design. Hidden within the masonry, the mantel's outward appearance is not affected.

You can guarantee your client a smokeless fireplace if you BUILD a BENNETT Fireplace.

Why BENNETT is BETTER

1. FLUE CONNECTION — Fits correct size of standard flue tile.
2. EXTRA LARGE SMOKE FUNNELING CHAMBER — Capacity for the largest fires with smooth-formed gradual "funneling" from throat to flue.
3. TIGHT-CLOSING THROAT DAMPER — "Seats" all around. No heat loss or cold down-drafts when fire is out.
4. SIMPLE DAMPER CONTROL — Fully adjustable to avoid waste excess draft. No springs or frictions to fail mechanically. Choose either "poker" (as shown) or convenient outside "rotary" handle.
5. OPENING WIDTH — Sized so that standard brick can be used in mantel-face without cutting.
6. OPENING HEIGHT — Higher to give a better view of the fire and more radiant heat. Adequate for an arched opening if wanted.
7. OPENING DEPTH — Scientifically proportioned for adequate fuel capacity, draft safety margin, more radiant heat, better view of fire.
8. ALL-AROUND SEALING FLANGE — Holds rock wool in place behind overlapping masonry. Prevents smoke leaks and heat loss.
9. COLD AIR FLOOR INLETS — Placed for convenient connection with various possible grille locations. Sized for free, unrestricted circulation.
10. FIREBOX HEATING CHAMBERS — Both back and side walls angled for greatest heat radiation and conduction. Graduated weights of heavy (up to $\frac{1}{4}$ inch) boiler plate for even heat distribution. Double-welded construction — more expensive to manufacture than "one-piece" but stronger by test.
11. EXTRA BAFFLES — These longer baffles conduct incoming cool air around to the heat center at the firebox back wall. Give extra heat; even firebox temperatures.
12. WARM AIR OUTLETS — Large sized for unrestricted flow. Placed for convenient low-cost construction of ducts to various possible outlet grille locations.

MASONS HAVE BUILT BENNETT FIREPLACES FOR NEARLY 25 YEARS — THERE IS NONE BETTER

ETI - IRELAND INC. *Chartered in 1906* NORWICH, NEW YORK

Summer Cottages, Southern Homes, Basement Playrooms.

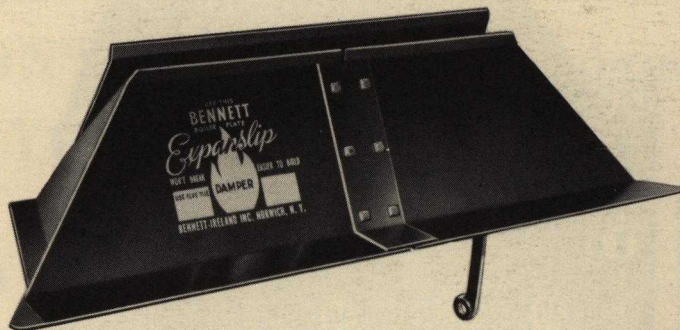
BENNETT IS THE MASON'S LINE . . . and

There's a Bennett "tested" Product

For EVERY FIREPLACE

BENNETT EXPANSLIP THROAT DAMPERS

A better damper — at a better price! Steep (60°) front slope gives sure draft. Structural steel with sturdy slip-joint eliminates damage in shipping, handling and in use. With unconditionally guaranteed steel valve.



BENNETT CAST IRON DAMPER

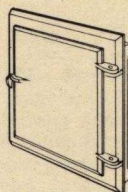
A quality damper at a competitive price. Superior casting facilities in our own foundry enable us to produce this steep slope 50° damper, with interchangeable ratchet or rotary control feature. With guaranteed steel valve (Cat. No. C-103) or cast iron valve (Cat. No. C-104).



BENNETT CLEANOUT DOORS

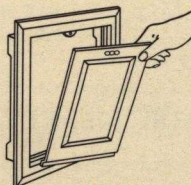
HINGED TYPE

Tight Closure . . . Convenient,
With crimped masonry wires.
Sizes 8" x 8", 12" x 8".



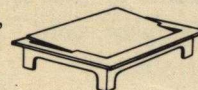
SCREW-TITE TYPES

Extra Tight Seal, Low Cost;
Aluminum for high corrosion resistance.
Also with iron frame and steel door.
Both with crimped masonry wires.
Sizes 8" x 8", 12" x 8".



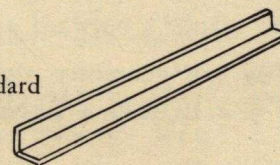
DEEP-SEAT ASH DUMP

100% heavier, for permanent,
trouble-free service.
Fire-brick Size 9" x 4½".



LINTEL BARS

In rated sizes for standard
openings from 24" to
72" in width.



Place one order for your Fireplace Supplies,
including cleanouts, ash dumps and lintels
. . . and insist on *Bennett* for best results.

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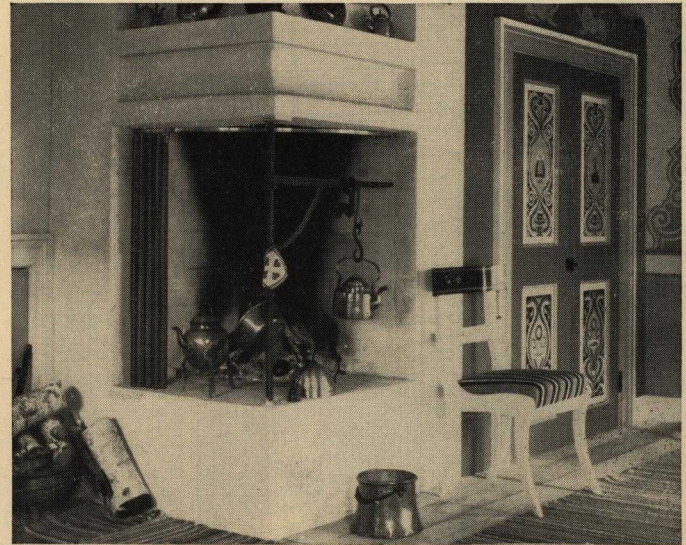
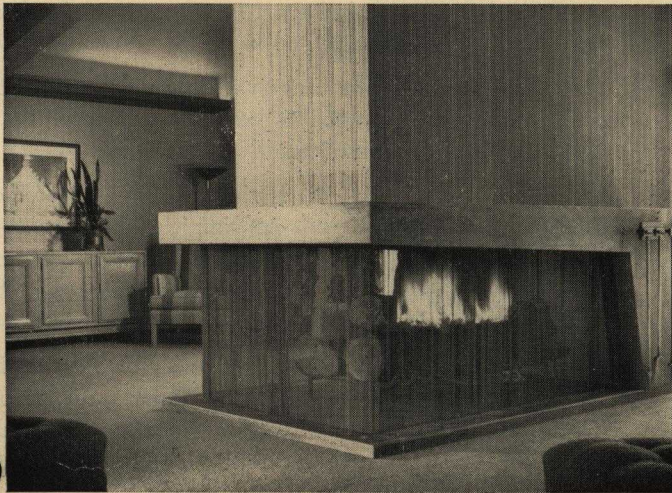
THE UNIVERSAL

Beneform[®]

DAMPER

A. I. A. File No. 14-E

Modern desire for a broader view of the fire on the hearth — from different angles of the room or even from other rooms — has created "projecting corner" fireplaces and types which are open on two or three sides, or even all around.



The usual throat damper is shaped and proportioned specifically for the conventional single-opening fireplace. It is not suited to the newer multi-opening types for several reasons:

1. *Flue and Throat Capacity* — The usual damper is designed for a relatively fixed size of fireplace opening, and the throat capacity is adequate only for a flue of proportionate ratio.

Multi-sided fireplaces always require larger flues, and since they vary in opening area, the flue size must vary proportionately. If too small, the fireplace will smoke; if too large, there will be excessive exhaust draft heat loss.

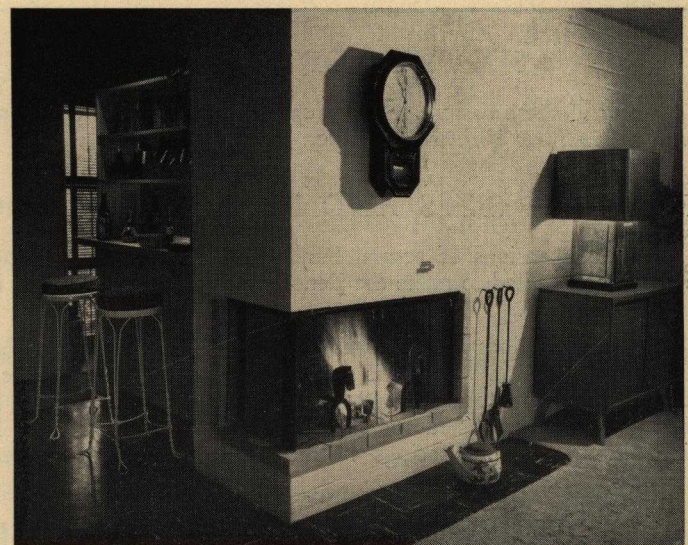
2. *Throat Shape* — The "conventional" damper has a long, narrow shape to make the fire burn evenly across the back wall. Multi-opening fireplaces need a broad, high funneling shape to promote draft *everywhere* on the hearth.

Also, a high, gradually sloped throat offers less obstruction to draft — important in these days of lower chimneys.

3. *Construction Problems* — The "conventional" damper is designed only for one set form of construction and is adaptable to other types only at high cost in the mason's time.

Special lintel supports are needed for multi-openings, and there is always much expensive corbeling to shape the throat to meet the damper frame in a way which avoids smoke-obstructing ledges.

Also, the chimney rarely lies directly above these newer types of fireplaces but is set to one side or another in a wall. With the usual damper this requires slanting and turning the flue. This adds to construction costs and weakens the draft.



A corner fireplace in one of the many Levitt homes, for which Bennett-Ireland have been supplying dampers since 1938.

This *universal* damper was developed by an organization which has specialized on fireplaces for over 25 years. The design was based on experience gained from building many thousands of special dampers for such unusual fireplaces as those in Levitt houses, where final "installed" costs must be studied as closely as perfect, smoke-free construction.

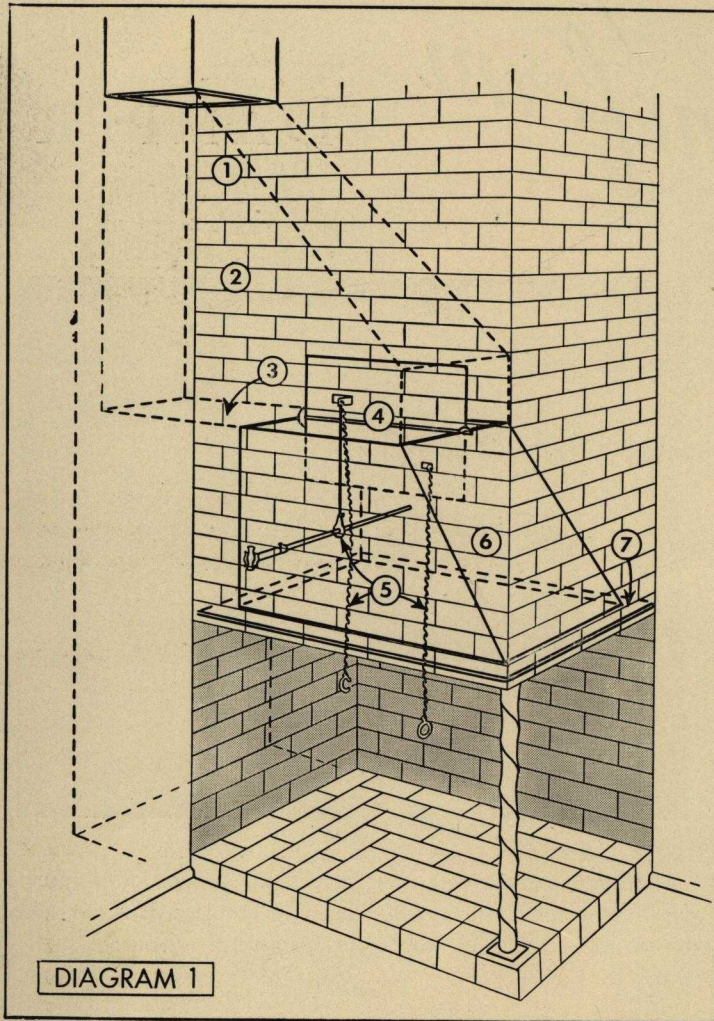
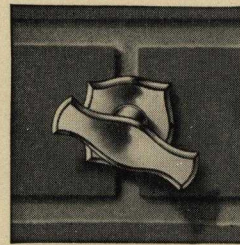


DIAGRAM 1

CHECK THESE 7 IMPORTANT POINTS AND ADVANTAGES

1. *Flue Tile* — Size is varied with the size and height of opening. It may be located to the left of the outlet as shown or on any one of the three other sides depending on the best location for the chimney.
2. *Combustion Chamber* — This can be generous in size and yet so located that it does not interfere with other construction requirements.
3. *Down Draft Shelf* — The flue tile must never be set directly above the damper outlet. If it is, air puffs can blow straight down the chimney and force smoke into the room. By offsetting it, an effective baffle or "shelf" against down drafts is formed in the masonry.
4. *Damper Valve* — The heavy valve pivots to tight closure; yet is removable. Permanent tension, unaffected by heat, allows exact draft adjustment.



5. *Valve Control* — Choose either the simple "chain pull" with heavy "O" and "C" pulls or the convenient outside brass "Rotary Control," shown at left.
6. *Complete Throat Form* of heavy steel properly and smoothly shapes the throat and allows rapid laying of masonry.

7. *All-Around Structural Lintel* — Each side has a flange of adequate structural strength to carry any load on its span.

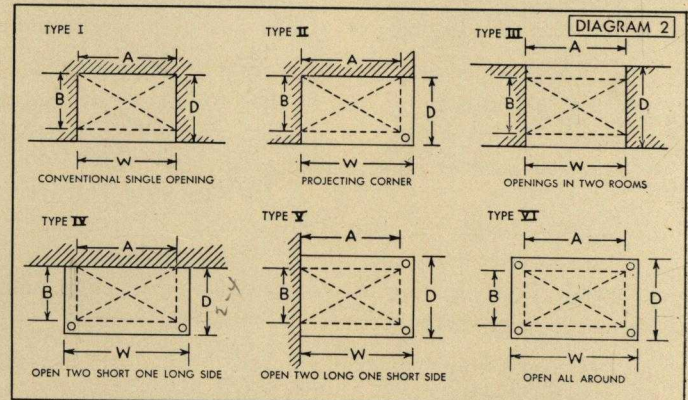
SIX TYPES OF FIREPLACES

Any of these basic types of fireplaces can be constructed properly with a *Beneform Universal Damper*.

FIREPLACE SIZES AND DAMPER DIMENSIONS

The dimensions of several hundred different multi-opening fireplaces were studied to make the Beneform Damper "universal" in size as well as shape.

The dotted lines in Diagram 2 show the location of the damper. The various sizes in which it is made (dimensions A and B) are given in the table below together with the corresponding approximate hearth sizes (W x D) are listed for each basic fireplace type. These hearth sizes allow for mantel facings 4" thick. They should never exceed 6".



HEARTH DIMENSIONS (WIDTH X DEPTH) FOR FIREPLACE TYPE:

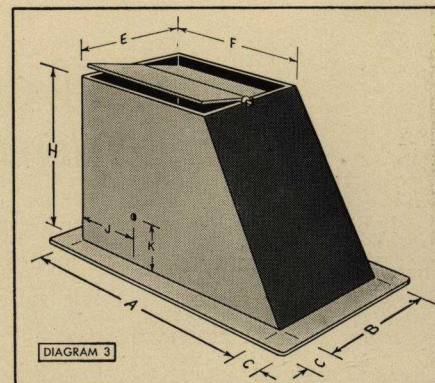
DAMPER SIZE

A x B	I	II	III	IV	V	VI
27 x 27"	27 x 31"	31 x 31"	27 x 35"	35 x 31"	31 x 35"	35 x 35"
33 x 33"	33 x 37	37 x 37	33 x 41	41 x 37	37 x 41	41 x 41
33 x 18"	33 x 22	37 x 22	33 x 26	41 x 22	37 x 26	41 x 26
39 x 18"	39 x 22	43 x 22	39 x 26	47 x 22	43 x 26	47 x 26
44 x 18"	44 x 22	48 x 22	44 x 26	52 x 22	48 x 26	52 x 26
50 x 24"	50 x 28	54 x 28	50 x 32	58 x 28	54 x 32	58 x 32

UNIVERSAL *Beneform*® DAMPER DIMENSIONS

INTAKE (INSIDE) A AND B	LINTEL FLANGE C	OUTLET OPENING E AND F	DAMPER HEIGHT H	ROTARY HANDLE J*	K*
27 x 27"	3"	18 x 24"	20"	8"	5"
33 x 33"	3	18 x 24	24	8	9
33 x 18"	3	18 x 24	24	8	9
39 x 18"	3	18 x 24	26	8	11
44 x 18"	3	18 x 24	26	8	11
50 x 24"	3	24 x 24	30	8	15

* An alternate location is on opposite side of damper.



HEIGHT OF FIREPLACE OPENING

With the *Universal Damper* the flue tile size used depends on the height of opening.

Unusually high openings can be built. However the trend of architectural design is towards long, horizontal lines, and openings are lower than formerly.

A low opening is also desirable for strong, smoke-free draft. Multi-sided fireplaces demand much larger flues to maintain the

proper ratio with the area of the opening, and this "normal" ratio must be increased further to allow for air currents in the room which may blow *through* the firebox. Today's low chimneys, too, call for a larger flue ratio.

These tables below give maximum opening heights using various flue tile sizes for each type of fireplace and size of Universal Damper:

TYPE I		FLUE TILE SIZE				
DAMPER SIZE	8½ x 13	13 x 13	13 x 18	18 x 18	18 x 24	
27 x 27"	32"	48"	—	—	—	
33 x 33"	27	32	54"	—	—	
33 x 18"	27	32	54	—	—	
39 x 18"	24	27	48	54"	—	
44 x 18"	21	24	42	48	—	
50 x 24"	—	21	30	42	54"	

TYPE II		13 x 13	13 x 18	18 x 18	18 x 24	24 x 24
27 x 27"	21"	32"	42"	48"	—	—
33 x 33"	—	27	36	42	48"	—
33 x 18"	21	33	42	—	—	—
39 x 18"	21	30	39	42	—	—
44 x 18"	—	24	36	42	—	—
50 x 24"	—	21	30	39	42	—

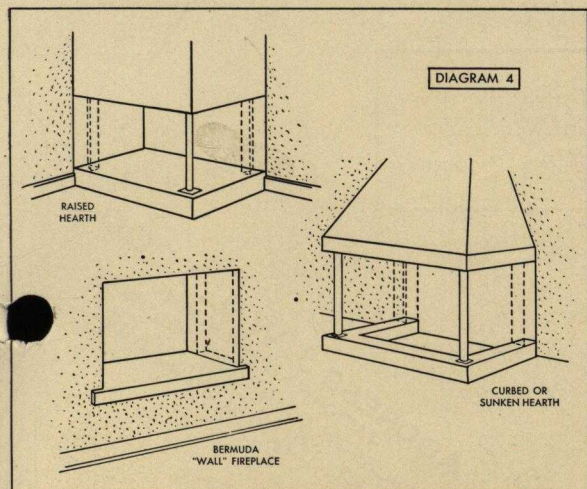
TYPE III		FLUE TILE SIZE		
<u>13 x 18</u>	<u>18 x 18</u>	<u>18 x 24</u>	<u>24 x 24</u>	
32"	42"	—	—	
27	36	42"	—	
27	36	42	—	
21	30	36	42"	
—	21	32	42	
—	—	27	36	

TYPE IV			
<u>13 x 18</u>	<u>18 x 18</u>	<u>18 x 24</u>	<u>24 x 24</u>
21"	28"	36"	42"
—	24	30	36
24	36	42	—
21	33	42	—
—	28	36	42
—	24	30	39

TYPE V		
FLUE TILE SIZE		
<u>18 x 18</u>	<u>18 x 24</u>	<u>24 x 24</u>
24"	32"	39"
21	27	32
27	36	42
24	30	39
21	24	32
—	21	27

TYPE VI		
<u>18 x 18</u>	<u>18 x 24</u>	<u>24 x 24</u>
18"	24"	32"
—	21	26
21	28	36
18	26	32
—	21	28
—	—	24

Because of cross-drafts from the room, fireplaces should not be built with greater net height of opening than is shown for each type and damper size.



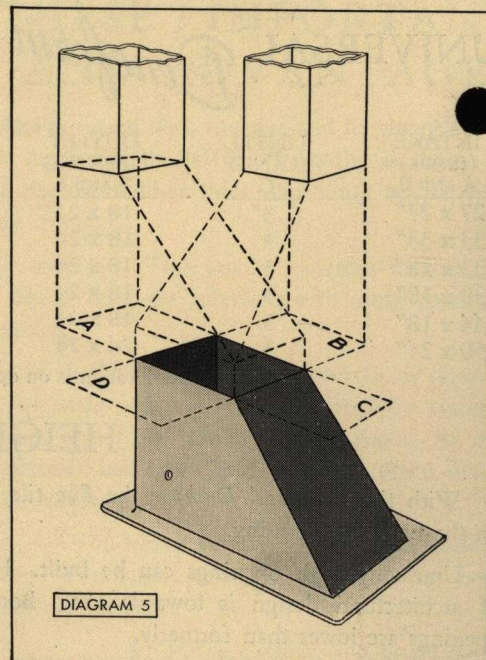
Curbed or sunken hearths, raised hearths and even Bermuda style "wall" fireplaces, as illustrated on the left, are among the means used of reducing the *net* height of the opening and at the same time achieving good architectural effect.

The dotted lines illustrate how side walls often are extended to reduce cross drafts, give the effects of larger openings or to reduce the flue size. The full sized damper is used in such cases but with a proportionately smaller flue tile.

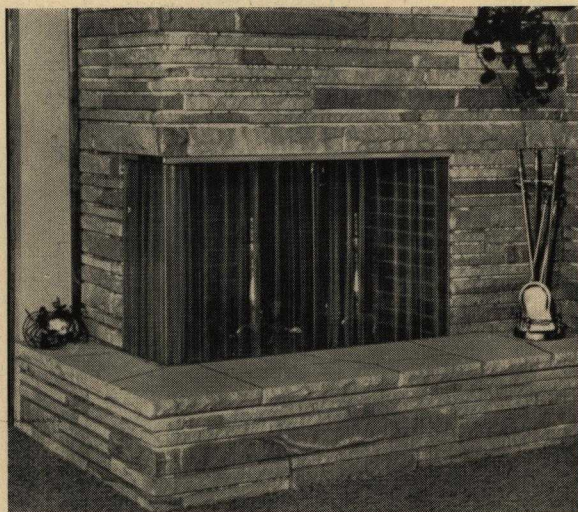
ALTERNATE CHIMNEY FLUE CONNECTIONS

It often happens in conventional type fireplaces, and almost always in other types, that the chimney cannot be located where the flue can run straight up from the center of the firebox. The flue must slant or turn and the tile be mitre-cut, and every architect and mason knows how this checks the draft and increases construction costs.

DIAGRAM 5 shows how the down draft shelf can be built at any one of the four sides (A, B, C or D) of the damper outlet, depending on the best location for the chimney and flue. In fact by turning the damper there are at least eight (with the square sized dampers there are sixteen) possible flue locations.



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FIREPLACE CURTAIN

Striking in its appeal on any fireplace, the versatility of *Flexscreen's* gracefully draping curtains makes it the only safe and convenient means of protecting some unusual types.

Many architects use our *Custom Service Department* to develop specifications for a *Flexscreen* that is in keeping with the fireplaces they create.

This same service designs special *Flexscreens* for Developers (Levitt has used tens of thousands) which can be produced in quantity at prices far below the sales appeal value that this nationally advertised product adds to the home.

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